



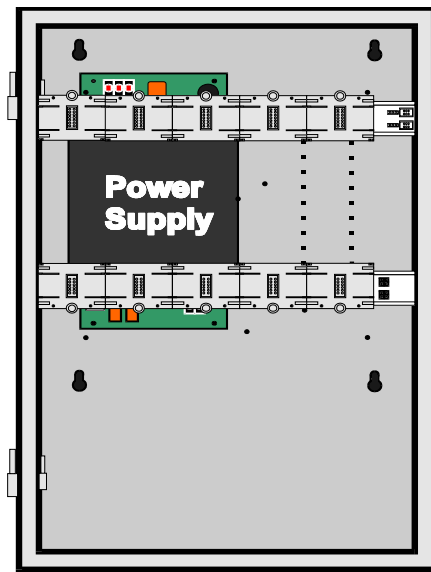
EST3 Life Safety Hardware

Basic Assembly



- **Chassis**
 - **Footprints for Power Supplies**
 - **Full Foot Print**
 - **Half Foot Print**

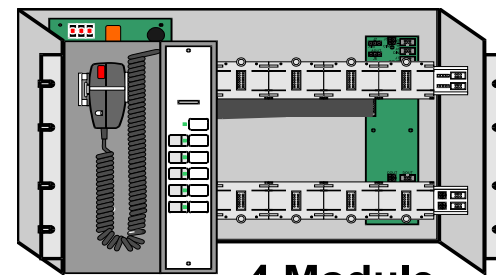
Basic Chassis Assembly



CAB5



7 Module

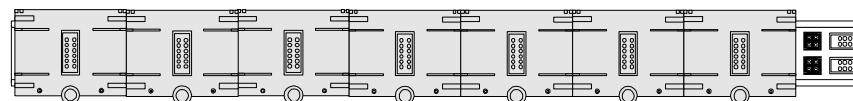
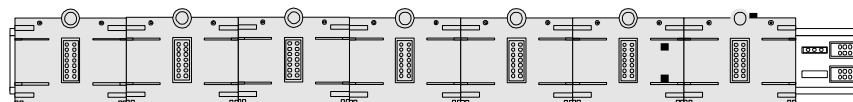


4 Module

chassis6

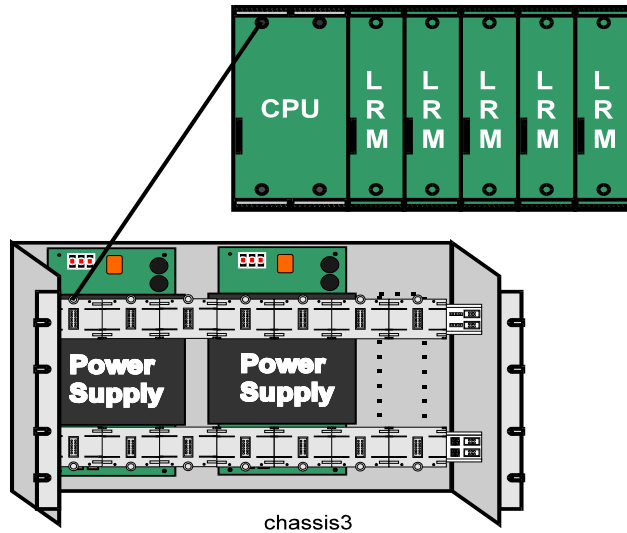
Local Rail

- **Power**
 - **+5 Volts**
 - **+24 Volts**
- **RS-485 Communication**
 - **System Data**
 - **Audio Data**
- **Address Select**
- **All Fail**

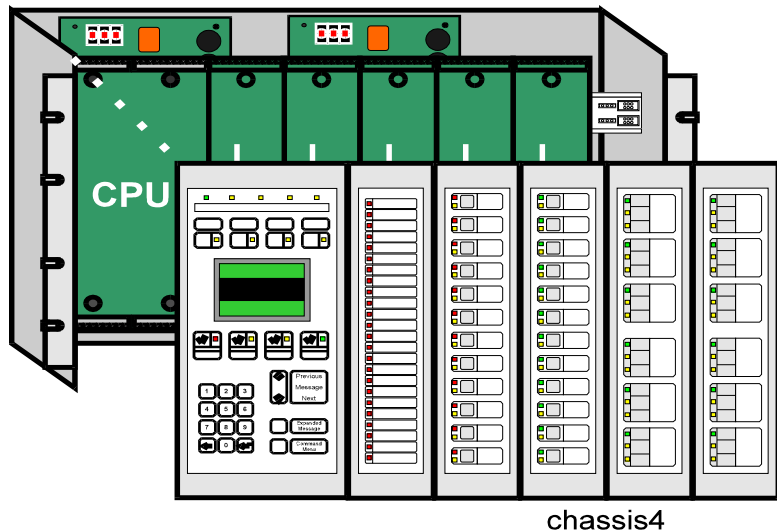


Basic Assembly

- **LRMs (Local Rail Modules)**
 - **Building Wiring Interface**
 - **Control Display Driver**



Basic Assembly



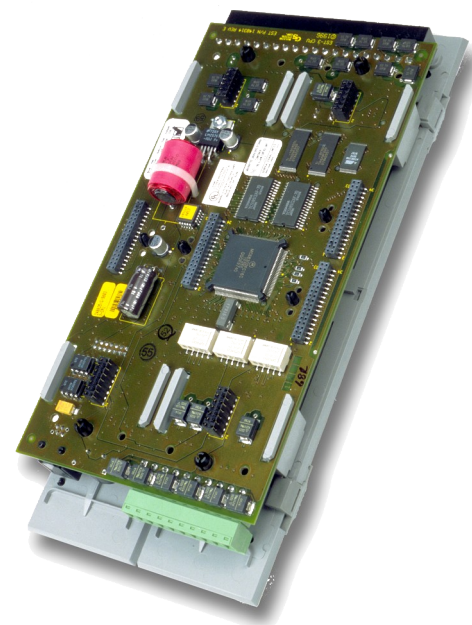
- **Control Display Modules**
 - **User Interface**
 - **Emergency User**
 - **Maintenance User**

- **Cabinets...**
Chassis Space
 - no chassis, 5 LRMs
 - 1 chassis, 7 LRMs
 - 2 chassis ,14 LRMs
 - 3 chassis, 21 LRMs
- **Mounting**
 - Lobby
 - Closet

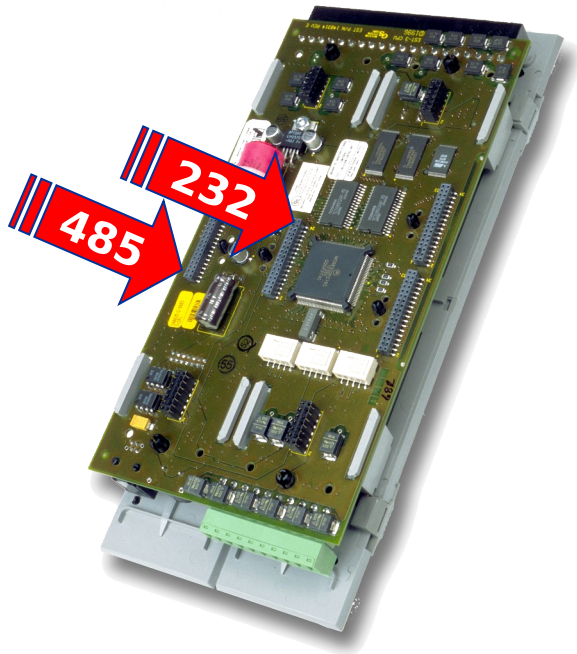


Central Processor Unit Module

- Alarm, supervisory, trouble contacts form 'C' bypassed only in test mode
- Watchdog circuit
- Built-in test functions
- Monitor ground fault detection
- Low voltage memory write protection
- Service LEDs
- Internal clock calendar /w leap year

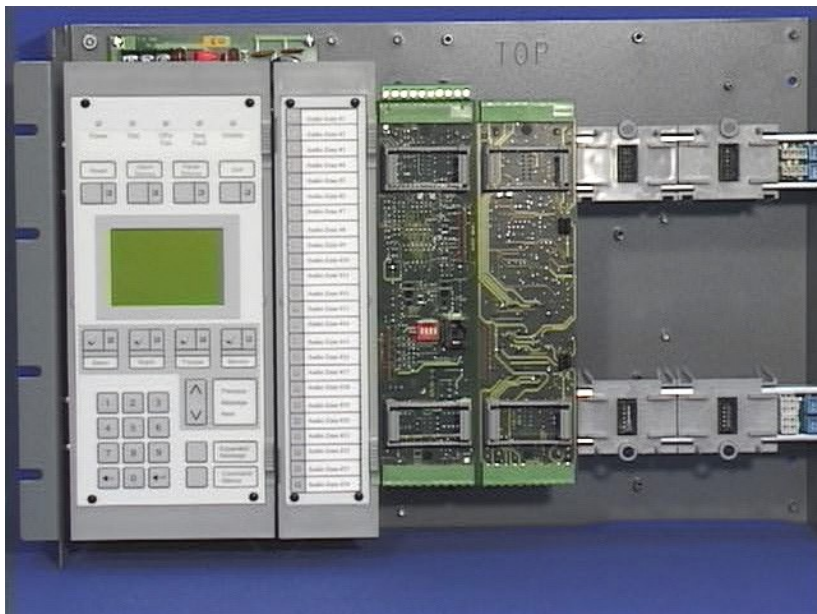


CPU Plug-Ins



- Expansion Slots / Connectors
 - 1 RS-485 Network Communication Channel
 - 2 RS-232 Communication Channels
 - Printers, CIS Interface, Fireworks
 - RJ45 RS232 Download connector

Local Rail Modules

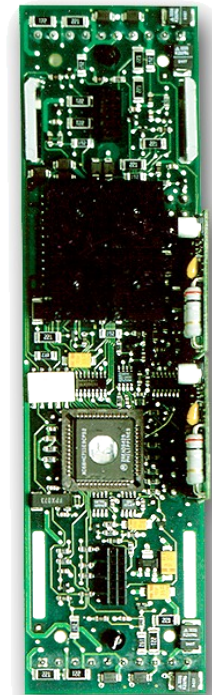


- Plug to system rails
- Interface EST3 to building wiring
- Plug-in terminal blocks, #18 to #12 AWG



Local Rail Modules

- **Non-Volatile memory for program & data**
- **Continual internal self-checks**
- **Common communication and display software on each module**
- **Supports control display modules which are independent of LRM type**
- **Maximum of 8A draw from a point on the rail**



Local Rail Module Types

- Central processor unit module
- Signature data controllers
- Initiating device circuit module
- Audio amplifier modules
- Security access control module
- Modem communicator (Qtr 1/01)
- Switch / LED support module
- Off premise signaling module
- Power supply module



Signature Data Controller

3-SSDC



- 3-SSDC 1 loop per module
- 3-SDDC 2 loops per module
- 3-SDC plugs into a SSDC to convert it to two loops
- Interfaces Intelligent Signature devices to EST3
- 125 detectors, 125 modules addresses per circuit
- Up to 5 loop rail modules per node, 10 SIGA loops / panel

Signature Data Controller

- **Circuit alarm detection ≤ 750 ms**
- **Standalone operation**
- **Style 7 or style 4**
- **'T' taps allowed on class 'B'**
- **Ground fault by circuit and module**
- **NV memory for program & configuration data**
- **Mapping of devices electrical location**
- **Automatic device addressing**



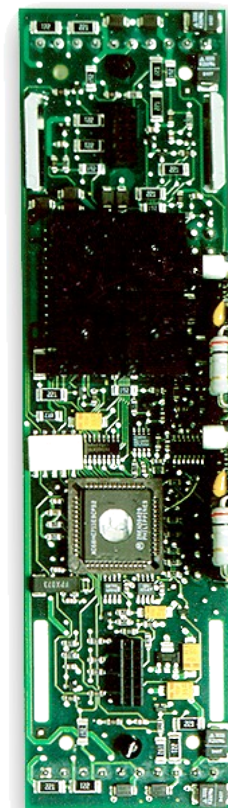
3-AADC Loop Controller

- **Interfaces Addressable Analog Devices**
- **1 loop per module**
- **99 Detectors, 99 Modules / loop**
- **Up to 10 Controllers / node**
- **Ckt alarm detection ≤ 7 seconds**
- **Ground fault / loop, NOT by module**
- **No Mapping**
- **Manual Detector Addressing**



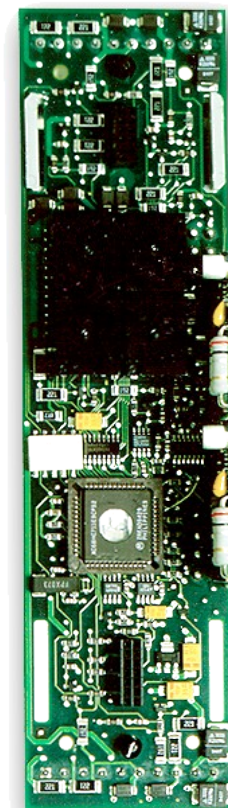
Initiating Device Circuit Module

- 8 style 'B' inputs
- Alarm, supervisory, monitor
- N.O. Or 2 wire smoke devices
- Supports up to 30 photo or 50 ion
- Verified, non-verified by circuit
- Programmable verification reset & retard periods



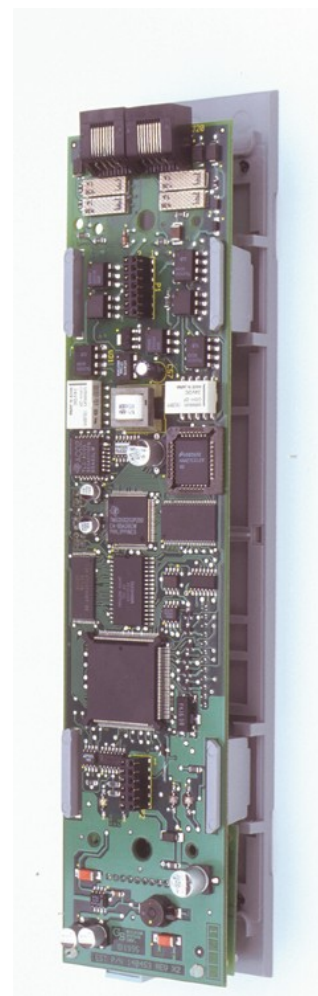
Initiating Device Circuit Module NACs

- 4 circuits convertible to outputs
- Style 'Y'
- Audible, visual, ancillary
- Operates reversing polarity appliances
- 24vdc @ 3.5A, or 70vrms @ 100W
- Electronic **POWER** limiting
- Power from rail, 8A total for module
- Two Single Channel Riser
- Two circuits served by one riser



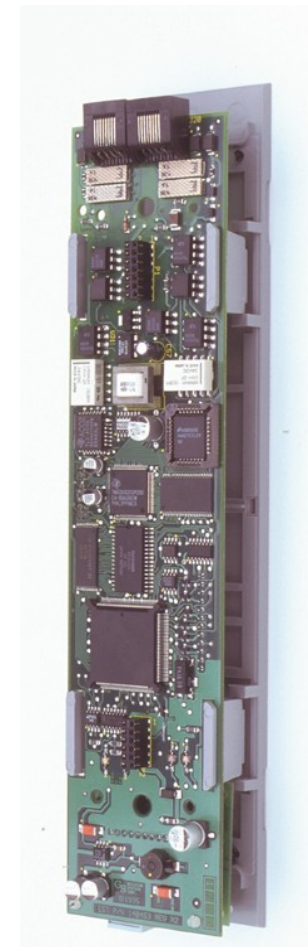
Modem Communicator

- **3- MODCOM**
 - **dual line dialer (DACT)**
 - SIA DCS
 - Contact ID
 - 4/2, 3/1
 - **Survivability**
 - **Buffer 500 events / priority**
 - **80 different monitor stations**
 - Split or multi reporting
 - 255 accounts (tenants)
 - **Multiple MODCOMs per network**
 - **Phone line friendly**



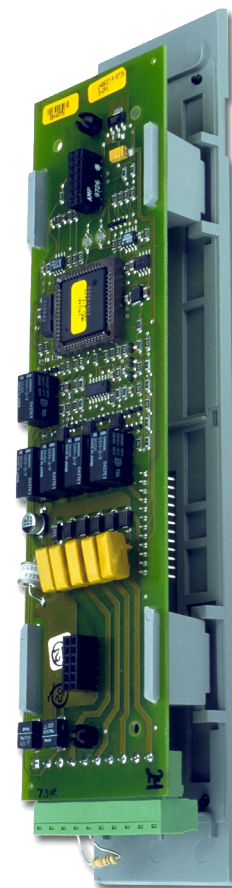
Modem Communicator

- **3- MODCOM**
 - modem communicator
 - access control database downloads
 - DACT alarm functions over-ride modem operations

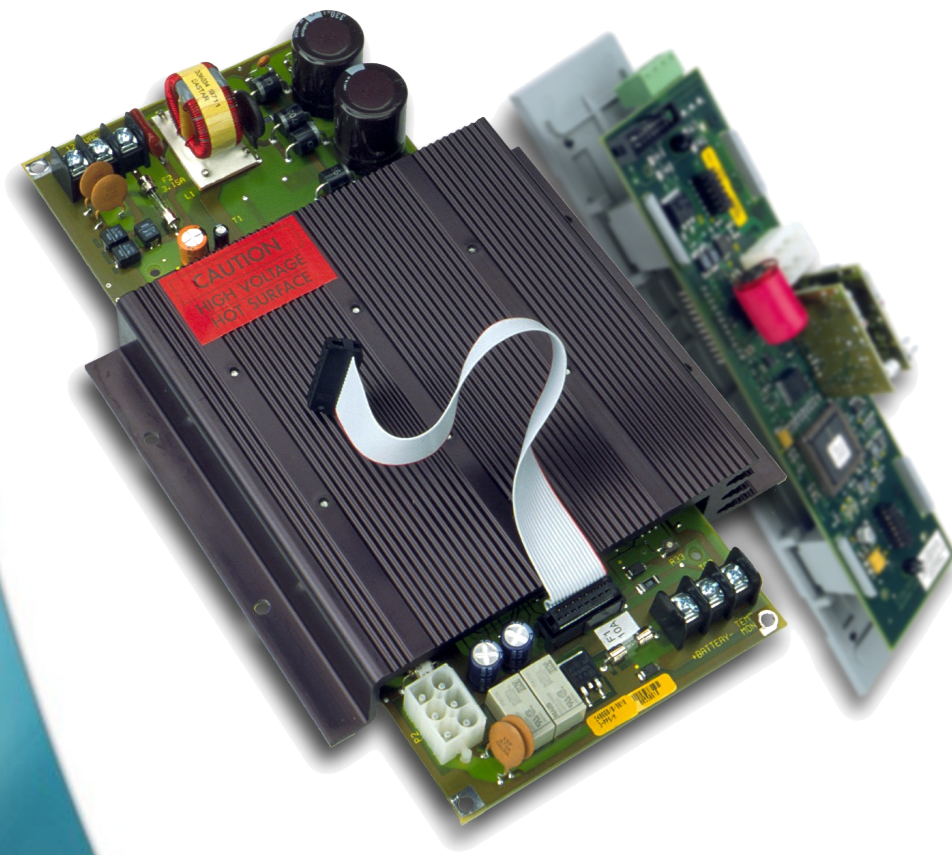


Off Premise Signaling Module

- Alarm, trouble, & supervisory outputs
- Trouble contacts
- 'Old' & 'new' reverse polarity connections
- Local energy municipal loop
- Electronic current limiting



Power Supplies

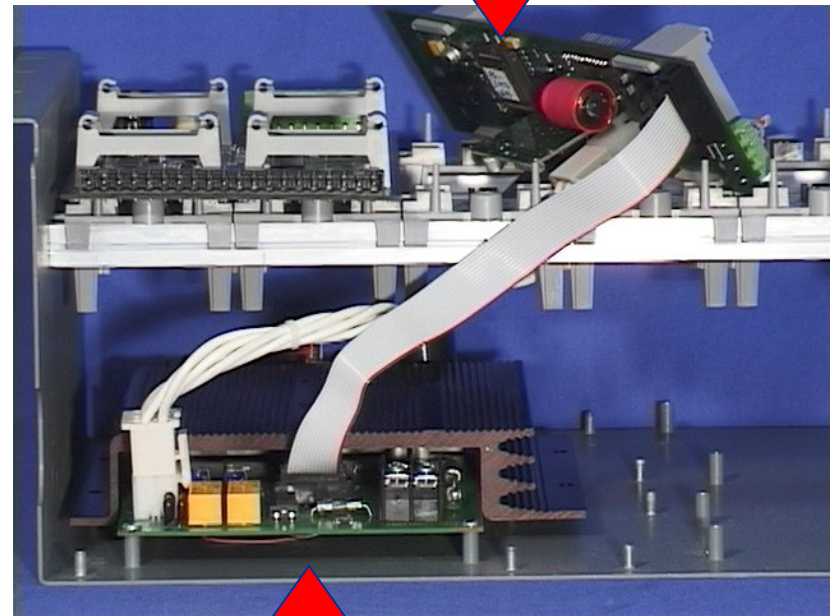


- Master and Booster
- Uses footprint & rail space
- Operate /w parallel output
- Switch mode, 80% efficiency
- Input 120vac or 230vac

Power Supplies

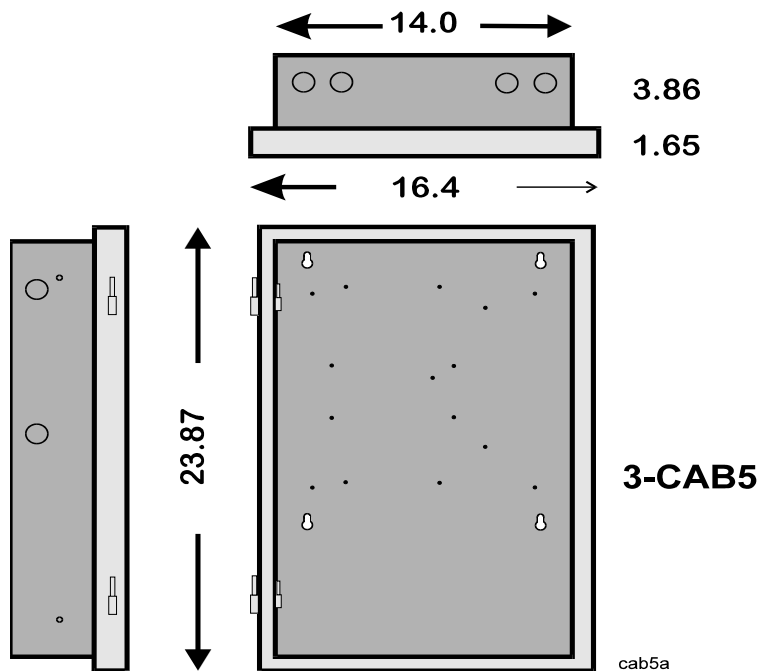
- **Output 24vdc @ 7.0A**
- **Two auxiliary outputs @ 3.5A**
- **Charges up to 65 AH**
- **Automatic dual rate**
- **Temperature compensated**
- **AC brown & restore**
- **Electronic current limiting**
- **Monitors heat sink temperature**

PS Monitor Modul



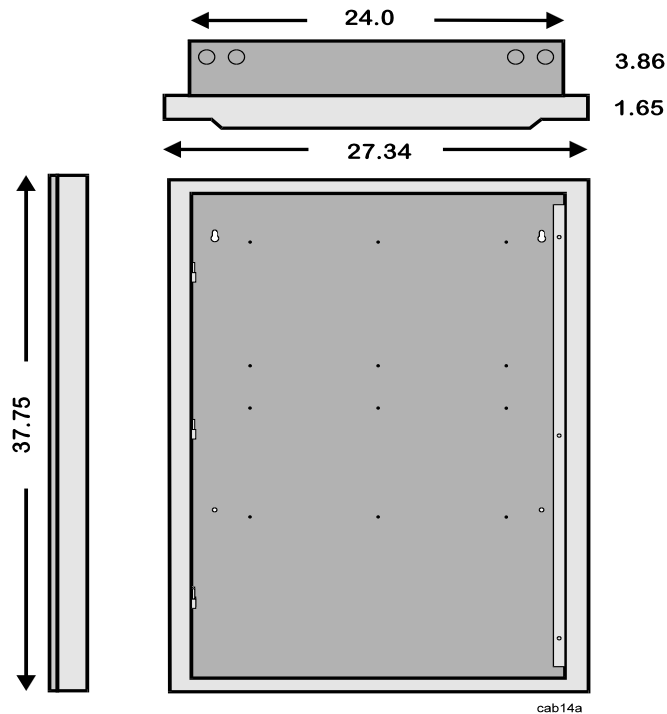
Power Supply

Lobby Mount 3-CAB5



- **3-CAB5**
- **5 rail spaces**
- **battery 10AH**
- **gray wallbox**
- **gray or red doors**

Lobby Mount 3-CABxx

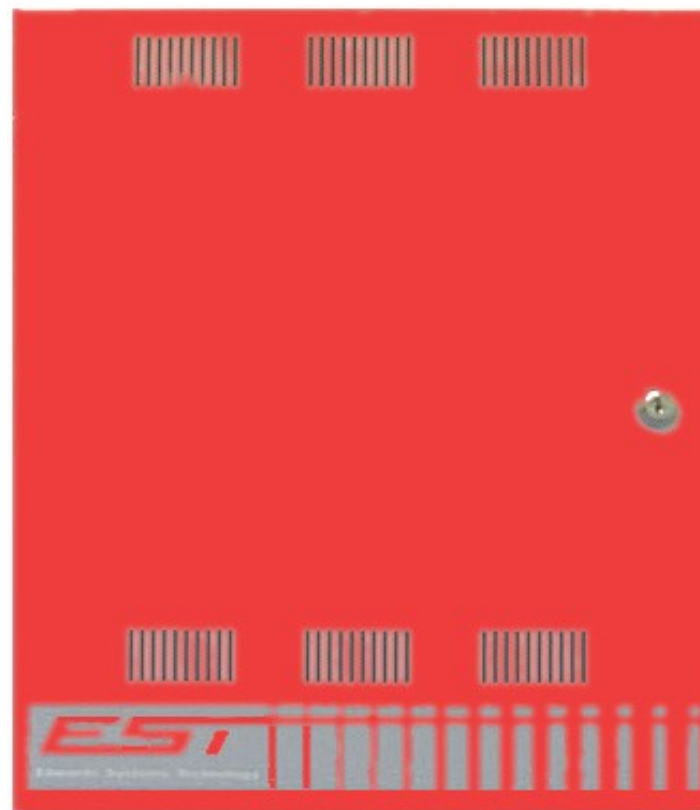


- 3.86 depth, 17AH
- 3-CAB7, 1 chassis
 - Box 23.25H, Door 25.5
- 3-CAB14, 2 chassis
 - Box 35.5H, Door 37.75
- 3-CAB21, 3 chassis
 - Box 47.75H, Door 50.0
- gray wall box
- gray or red doors



3-RCCxxR Closet Mount

- **25" Wide, 5.5" deep, 65 AH Batteries**
- **3-RCC7R 1 Chassis**
 - **Box 23.975" high**
- **3-RCC14R 2 Chassis**
 - **Box 36.125" high**
- **3-RCC21R 3 Chassis**
 - **Box 48.375" high**
- **Red wall box, red doors**





EST3 Life Safety Hardware

Thank You!

